

## SEQUENCE LISTING

<110> Mack, David Gish, Kurt Wilson, Keith

<120> NOVEL METHODS OF DIAGNOSING COLORECTAL CANCER, COMPOSITIONS AND METHODS OF SCREENING FOR COLORECTAL CANCER MODULATORS

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tttgcc														_	111
	M 1	et Le	eu Se	er Se	er Th	nr Ās	sp Pl	ne Th	nr Pl	ne Al	la Se	er Ti	rp G	lu Leu	
gtg gt Val Va 15	c cgc l Arg	gtt Val	gac Asp	cat His 20	ccc Pro	aat Asn	gaa Glu	gag Glu	cag Gln 25	cag Gln	aaa Lys	gac Asp	gtc Val	aca Thr 30	159
ctg ag Leu Ar	a gta g Val	tct Ser	gga Gly 35	gac Asp	ctt Leu	cac His	gtt Val	gga Gly 40	gga Gly	gtg Val	atg Met	ctc Leu	aag Lys 45	tta Leu	207
gta ga Val Gl	a cag u Gln	atc Ile 50	aat Asn	ata Ile	tcc Ser	caa Gln	gac Asp 55	tgg Trp	tca Ser	gac Asp	ttt Phe	gct Ala 60	ctt Leu	tgg Trp	255
tgg ga Trp Gl	a cag u Gln 65	aag Lys	cat His	tgc Cys	tgg Trp	ctt Leu 70	ctg Leu	aaa Lys	acc Thr	cac His	tgg Trp 75	acc Thr	ctg Leu	gac Asp	303
aaa ta Lys Ty 80	t ggg r Gly	gtc Val	cag Gln	gca Ala	gat Asp 85	gca Ala	aag Lys	ctt Leu	ctc Leu	ttc Phe 90	acc Thr	cct Pro	cag Gln	cat His	351
aaa at Lys Me 95	g ctg t Leu	cgc Arg	ctt Leu	cgt Arg 100	ctg Leu	ccg Pro	aat Asn	ttg Leu	aag Lys 105	atg Met	gtg Val	agg Arg	ttg Leu	cga Arg 110	399

_	agc Ser			_		_			_	_	_	-		_		447
	ctg Leu			_	_		_				_			-		495
	gac Asp			-	-	-	-			-				-	_	543
	ata Ile 160							_	-	_						591
	tca Ser		_	-					-			_				639
	gac Asp							-				_				687
_	gac Asp	_		_	_	_			-	_			_		_	735
	ccc Pro		_			_	_			_	_		_			783
	ctg Leu 240															831
-	tcc Ser		_	-						_		_	_			879
_	ttt Phe							_	-					_	-	927
	cga Arg															975
	gaa Glu															1023
-	tac Tyr 320			_		_	_	-		_	_		_	_		1071
	ggc Gly															1119

335				340					345					350	
gaa gta Glu Val	acc Thr	cta Leu	gaa Glu 355	ggt Gly	gga Gly	aaa Lys	gcg Ala	gac Asp 360	agc Ser	ctt Leu	ttg Leu	gag Glu	gac Asp 365	att Ile	1167
act gat Thr Asp	atc lle	cct Pro 370	aaa Lys	ctt Leu	gca Ala	gat Asp	aat Asn 375	ctc Leu	aaa Lys	tta Leu	ttt Phe	agg Arg 380	ccc Pro	aag Lys	1215
aag tta Lys Lei	cta Leu 385	cca Pro	aaa Lys	gct Ala	ttc Phe	aaa Lys 390	caa Gln	tat Tyr	tgg Trp	ttt Phe	atc Ile 395	ttt Phe	aaa Lys	gac Asp	1263
aca tco Thr Ser 400	Ile														1311
cta gaa Leu Gli 415	aaa Lys	cta Leu	aat Asn	ctt Leu 420	aga Arg	ggc Gly	tgc Cys	gaa Glu	gtt Val 425	gtg Val	ccc Pro	gat Asp	gta Val	aat Asn 430	1359
gta gca Val Ala															1407
ggt ato Gly Met															1455
caa tgo Gln Trp	atg Met 465	gct Ala	gcc Ala	tgc Cys	atg Met	ttg Leu 470	gca Ala	tcg Ser	aag Lys	ggc Gly	aaa Lys 475	acc Thr	atg Met	gca Ala	1503
gac ago Asp Ser 480	Ser	tac Tyr	cag Gln	cca Pro	gag Glu 485	gtc Val	ctc Leu	aac Asn	atc Ile	ctt Leu 490	tca Ser	ttt Phe	ctg Leu	agg Arg	1551
atg aaa Met Lys 495	aac Asn	agg Arg	aac Asn	tct Ser 500	gca Ala	tct Ser	cag Gln	gtg Val	gct Ala 505	tcc Ser	agt Ser	ctc Leu	gaa Glu	aac Asn 510	1599
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cac aaa His Lys	tcc Ser	aaa Lys 530	cag Gln	ctg Leu	gcc Ala	gcc Ala	cgg Arg 535	atc Ile	ctg Leu	gag Glu	gcg Ala	cac His 540	cag Gln	aac Asn	1695
gtg gcc Val Ala	cag Gln 545	atg Met	ccc Pro	ctg Leu	gtc Val	gaa Glu 550	gcc Ala	aag Lys	ctg Leu	cgg Arg	ttc Phe 555	atc Ile	cag Gln	gcg Ala	1743
tgg cag Trp Glr 560	Ser	ctg Leu	cct Pro	gag Glu	ttt Phe 565	ggc Gly	ctc Leu	acc Thr	tac Tyr	tac Tyr 570	ctt Leu	gtc Val	aga Arg	ttt Phe	1791

Lys Gly Ser Lys Lys Asp Asp Ile Leu Gly Val Ser Tyr Asn Arg Leu 575 580 585 590	1839
att aaa att gat gca gcc acc ggg att cca gtg aca aca tgg aga ttc Ile Lys Ile Asp Ala Ala Thr Gly Ile Pro Val Thr Thr Trp Arg Phe 595 600 605	1887
aca aat atc aaa cag tgg aat gta aac tgg gaa acc cgg cag gtg gtc Thr Asn Ile Lys Gln Trp Asn Val Asn Trp Glu Thr Arg Gln Val Val 610 615 620	1935
atc gag ttt gac caa aac gtc ttt act gct ttc acc tgc ctg agt gca Ile Glu Phe Asp Gln Asn Val Phe Thr Ala Phe Thr Cys Leu Ser Ala 625 630 635	1983
gat tgc aag att gtg cac gag tac att ggc ggc tac att ttc ttg tcc Asp Cys Lys Ile Val His Glu Tyr Ile Gly Gly Tyr Ile Phe Leu Ser 640 645 650	2031
acc cgc tcc aag gac cag aat gaa aca ctc gat gag gac ttg ttc cacThr Arg Ser Lys Asp Gln Asn Glu Thr Leu Asp Glu Asp Leu Phe His655660	2079
aaa ttg acc ggc ggt cag gat taa Lys Leu Thr Gly Gly Gln Asp 675	2103
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Leu Arg Leu Pro Asn Leu Lys Met Val Arg Leu Arg Val Ser 100 105 110

Phe Ser Ala Val Val Phe Lys Ala Val Ser Asp Ile Cys Lys Ile Leu 115 120 125

Asn Ile Arg Arg Ser Glu Glu Leu Ser Leu Leu Lys Pro Ser Gly Asp 130 135 140

Tyr Phe Lys Lys Lys Lys Lys Lys Asp Lys Asn Asn Lys Glu Pro Ile 145 150 155 160

Ile Glu Asp Ile Leu Asn Leu Glu Ser Ser Pro Thr Ala Ser Gly Ser 165 170 175

Ser Val Ser Pro Gly Leu Tyr Ser Lys Thr Met Thr Pro Ile Tyr Asp 180 185 190

Pro Ile Asn Gly Thr Pro Ala Ser Ser Thr Met Thr Trp Phe Ser Asp 195 200 205

Ser Pro Leu Thr Glu Gln Asn Cys Ser Ile Leu Ala Phe Ser Gln Pro 210 215 220

Pro Gln Ser Pro Glu Ala Leu Ala Asp Met Tyr Gln Pro Arg Ser Leu 225 230 235 240

Val Asp Lys Ala Lys Leu Asn Ala Gly Trp Leu Asp Ser Ser Arg Ser 245 250 255

Leu Met Glu Gln Gly Ile Gln Glu Asp Glu Gln Leu Leu Arg Phe 260 265 270

Lys Tyr Tyr Ser Phe Phe Asp Leu Asn Pro Lys Tyr Asp Ala Val Arg 275 280 285

Ile Asn Gln Leu Tyr Glu Gln Ala Arg Trp Ala Ile Leu Leu Glu Glu 290 295 300

Ile Asp Cys Thr Glu Glu Glu Met Leu Ile Phe Ala Ala Leu Gln Tyr 305 310 315 320

His Ile Ser Lys Leu Ser Leu Ser Ala Glu Thr Gln Asp Phe Ala Gly 325 330 335

Glu Ser Glu Val Asp Glu Ile Glu Ala Ala Leu Ser Asn Leu Glu Val 340 345 350

Thr Leu Glu Gly Gly Lys Ala Asp Ser Leu Leu Glu Asp Ile Thr Asp 355 360 365

Ile Pro Lys Leu Ala Asp Asn Leu Lys Leu Phe Arg Pro Lys Lys Leu 370 375 380

Leu Pro Lys Ala Phe Lys Gln Tyr Trp Phe Ile Phe Lys Asp Thr Ser 385 390 395 400

Ile Ala Tyr Phe Lys Asn Lys Glu Leu Glu Gln Gly Glu Pro Leu Glu . 405 410 415

Lys Leu Asn Leu Arg Gly Cys Glu Val Val Pro Asp Val Asn Val Ala 420 425 430

Gly Arg Lys Phe Gly Ile Lys Leu Leu Ile Pro Val Ala Asp Gly Met 435 440 445

Asn Glu Met Tyr Leu Arg Cys Asp His Glu Asn Gln Tyr Ala Gln Trp 450 455 460

Met Ala Ala Cys Met Leu Ala Ser Lys Gly Lys Thr Met Ala Asp Ser 465 470 475 480

Ser Tyr Gln Pro Glu Val Leu Asn Ile Leu Ser Phe Leu Arg Met Lys 485 490 495

Asn Arg Asn Ser Ala Ser Gln Val Ala Ser Ser Leu Glu Asn Met Asp 500 505 510

Met Asn Pro Glu Cys Phe Val Ser Pro Arg Cys Ala Lys Lys His Lys 515 520 525

Ser Lys Gln Leu Ala Ala Arg Ile Leu Glu Ala His Gln Asn Val Ala 530 540

Gln Met Pro Leu Val Glu Ala Lys Leu Arg Phe Ile Gln Ala Trp Gln 545 550 555 560

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Ser Leu Pro Glu Phe Gly Leu Thr Tyr Tyr Leu Val Arg Phe Lys Gly
                565
                                    570
Ser Lys Lys Asp Asp Ile Leu Gly Val Ser Tyr Asn Arg Leu Ile Lys
            580
Ile Asp Ala Ala Thr Gly Ile Pro Val Thr Trp Arg Phe Thr Asn
Ile Lys Gln Trp Asn Val Asn Trp Glu Thr Arg Gln Val Val Ile Glu
                        615
Phe Asp Gln Asn Val Phe Thr Ala Phe Thr Cys Leu Ser Ala Asp Cys
625
                    630
                                        635
                                                             640
Lys Ile Val His Glu Tyr Ile Gly Gly Tyr Ile Phe Leu Ser Thr Arg
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Trp Ser Xaa Trp Ser
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